



TELTONIKA CALYX 5G RED CAP, EBD070, EMBEDDED CELLULAR RASPBERRY PI HAT+



link to the product:

<https://www.batna24.com/gb/p/lte-5g/teltonika-calyx-5g-red-cap-ebd070-embedded-cellular-raspberry-pi-hat>

Price: **696.95 zł** gross / 566.63 zł net



Manufacturer: TELTONIKA

Referention number: DNXGKMMKLMMOL

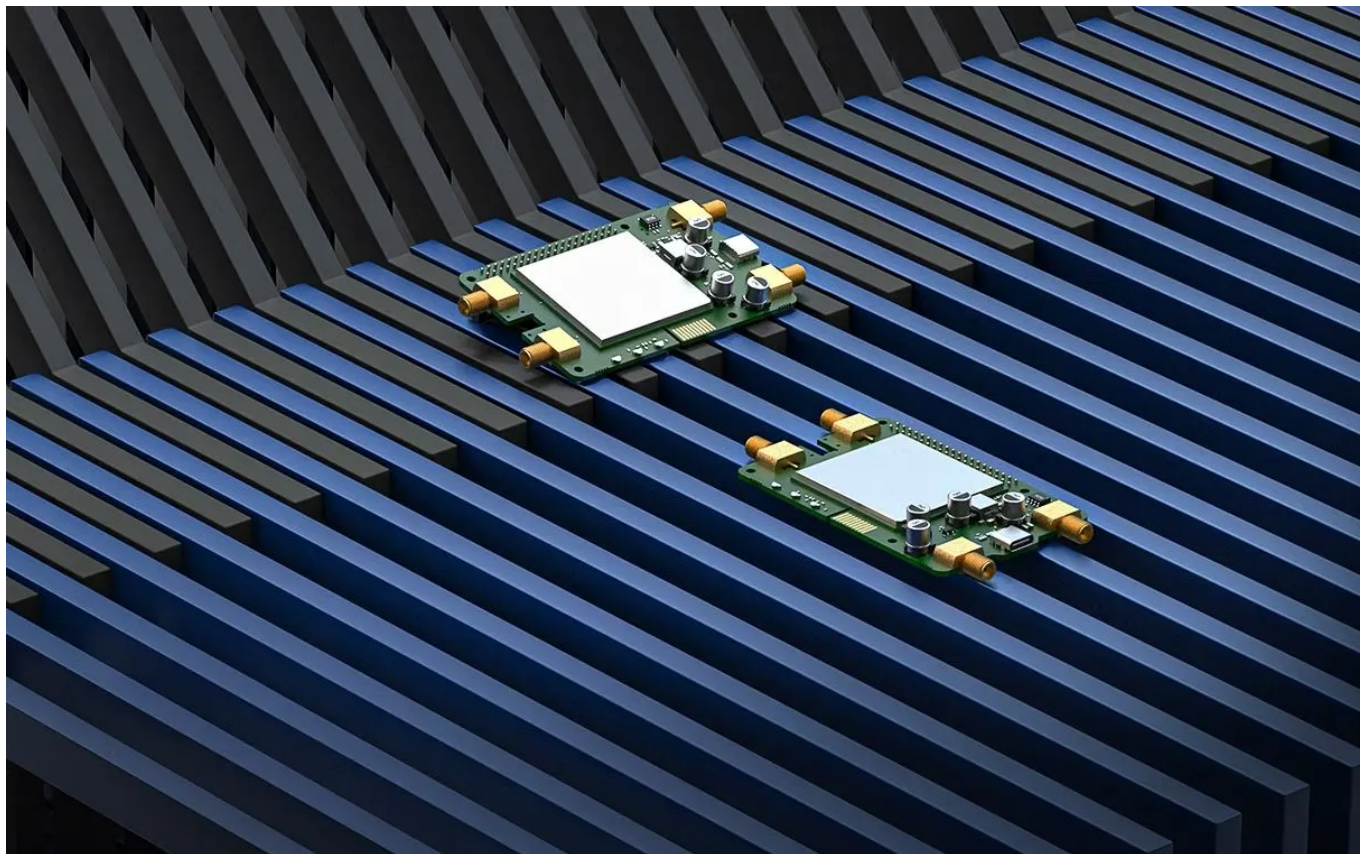
Information:

Teltonika Calyx 5G Red Cap (EBD070) is a compact HAT+ module for Raspberry Pi 4 and 5 that provides reliable 5G connectivity where Wi-Fi or Ethernet are unavailable. Thanks to 5G RedCap technology and the 3GPP Release 17 standard, it offers stable data transmission for telemetry, monitoring and IoT projects, with speeds of up to 223 Mb/s download and 123 Mb/s upload. Direct mounting on the SBC saves space and simplifies integration, while two SMA connectors make it easy to connect antennas. GPIO enables remote power-on, reset and wake-up of the modem, increasing system reliability. PCM audio support extends its use to voice and communication solutions. The module operates across a wide temperature range from -40°C to +75°C.

Full product description

5G RedCap for Raspberry Pi

Teltonika **Calyx 5G Red Cap** (EBD070) is an embedded cellular HAT+ module for **Raspberry Pi 4 and 5**, providing connectivity where Wi-Fi or Ethernet fail. The design mounted directly on the SBC saves space and simplifies integration in industrial and IoT projects.



Key advantages

- **5G RedCap** – provides 5G connectivity with a lower level of complexity than full 5G, making deployment easier in medium-bandwidth projects.
- **Release 17** – support for the 3GPP standard for stable module operation in industrial applications.
- **223 Mb/s DL** and **123 Mb/s UL** – sufficient for telemetry, remote monitoring and sensor data transmission.
- **2 x SMA** – convenient connection of mobile antennas, without makeshift adapters.
- **GPIO** – remote wake-up, reset and modem control from Raspberry Pi shorten service response time.
- **PCM audio** – support for a digital audio path expands use cases to voice and communication solutions.



Connectivity where it is lacking

The module works well in locations far from network infrastructure, as it uses cellular connectivity instead of relying on LAN or access points. It is a practical solution for telemetry, monitoring and edge devices operating outside the range of a reliable local network.



Compact HAT+ mounting

The **56 x 23.11 x 95.48 mm** format and **57 g** weight make it easy to build a compact enclosure without unnecessary adapters or loose cables. Direct mounting on Raspberry Pi tidies up the installation and reduces the risk of mechanical damage to connections.



GPIO control

Dedicated **GPIO** lines give full control over the modem, including power on, reset and wake from sleep. In practice, Raspberry Pi can independently restore connectivity after the modem freezes, reducing service visits and system downtime.



PCM audio and applications

Support for **PCM audio** opens the door to integration with voice applications, SMS gateways and systems requiring digital audio transmission. As a result, one module can handle both data transmission and communication functions in more complex projects.



Operating range and compatibility

The device operates in the **-40°C to +75°C** range, so it is suitable for installations exposed to extreme environmental conditions. The EBD070 version also has a set of approvals including **CE, UKCA, EAC, UCRF, FCC, ISED, RCM, CB, WEEE**, which facilitates deployment in different regions.



Package contents

The set includes the **Calyx 5G Red Cap (EBD070)** module, a mounting kit, a **40-pin GPIO** extension cable, a **USB-C to USB-A** adapter, a quick start guide and packaging. This set speeds up the start of work and makes the first launch easier without having to look for additional accessories.

